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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/694,884	10/29/2003	Koji Kanda	1560-0401P	4111	
	590 01/26/2005		EXAMINER		
BIRCH STEV PO BOX 747	VART KOLASCH & B	MCCLOUD, RENATA D			
	CH, VA 22040-0747	ART UNIT	PAPER NUMBER		
			2837		
			DATE MAILED: 01/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)			
Office Action Summary		10/694,8	384	KANDA, KOJI			
		Examine	er .	Art Unit			
	: -	Renata		2837			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOMALLING DATE OF THIS COMMUNION of time may be available under the provisions of time may be available under the provisions of time may be available under the provisions osiX (6) MONTHS from the mailing date of this communication period for reply specified above, the maximum state to reply within the set or extended period for reply we eply: received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no e inication. f days, a reply within the studory period will apply and will by statute. cause the ac	vent, however, may a reply atutory minimum of thirty (30 will expire SIX (6) MONTHS polication to become ABANI	be timely filed 0) days will be considered time 6 from the mailing date of this concept (35 U.S.C. § 133).	ly. communication.		
Status	:			:			
1)🛛	Responsive to communication(s) filed	l on <u>29 October 20</u>	<u>03</u> .	:			
2a) ☐ This action is FINAL. 2b) ☑ 1		•	nis action is non-final.				
3) 🗌	Since this application is in condition f	or allowance excep	ot for formal matters	, prosecution as to the	e merits is		
	closed in accordance with the practic	e under <i>Ex parte</i> Q	uayle, 1935 C.D. 1	1, 453 O.G. 213.			
Dispositi	on of Claims			:	./		
4) 🖂	Claim(s) <u>1-20</u> is/are pending in the ap	oplication.		:			
,	4a) Of the above claim(s) is/ar		onsideration.	:			
5) 🗌	5) Claim(s) is/are allowed.						
6)🖂	6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) 🗌							
8) 🗌	Claim(s) are subject to restrict	ion and/or election	requirement.				
Applicat	ion Papers						
9) 🗆	The specification is objected to by the	Examiner.		:			
<i>,</i> —	The drawing(s) filed on 29 October 20		cepted or b)⊠ obj∈	ected to by the Examir	ner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
12) 🛛	Acknowledgment is made of a claim f	or foreign priority u	nder 35 U.S.C. § 1	19(a)-(d) or (f).			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ Âll b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of	of the priority docum	nents have been re	ceived in this Nationa	l Stage		
	application from the Internation	nal Bureau (PCT R	ule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.							
					•		
Attachmer	nt(c) [;]						
	n(s) ce of References Cited (PTO-892)		4) Interview Sun	nmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
	mation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date 10/29/03, 10/25/04.	PTO/SB/08)	5) Notice of Info	* *	U-152)		

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DETAILED ACTION

Drawings

- 1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "vehicle" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 2, 5-7,9-12,15-17,19,20 are rejected under 35 U.S.C. 102(b) as being anticipated by Beck (US 6088599).

Claims 1 and 11: a steering apparatus (Fig. 1) which uses a steering motor to supply a steering mechanism with force corresponding to a steering amount applied to a steering member, comprising: a motor (Fig. 1: 26); a current sensor (Fig. 12: 200); a controller (Fig. 12: 76) capable of extracting a component within a frequency range out of the sensed current (Fig. 12: 208); and driving the motor (26) so as to supply the steering member with a force corresponding to the extracted component and the steering amount (Fig. 12: 151 controls motor based on the outputs of 159, 27, which correspond to the steering amount, and the output of 208).

Claims 2 and 12: the controller (Fig. 12: 151) is capable of amplifying the extracted component (Fig. 12: 208).

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Claims 4, 8, 14, and 18: the controller amplifies the component with an amplification factor that increases and decreases based on speed (Col. 8:26-41).

Claims 5, 6, 15, and 16: the range is between 3-15 hz (Col. 14:48-51).

Claims 7, 17: the range is fixed (Col. 14:148-51).

Claims 9, 19: the controller is capable of setting a target force (Fig. 12: 149/145); adding the target value of the force (Fig. 12: 145) to the extracted component (Fig. 12: 208), wherein the controller (Fig. 12: 151) drives the motor based on the addition (Fig. 12: 155).

Claims 10, 20: the steering member (Fig. 1: 12) and mechanism (Fig. 1: 14) are not mechanically connected.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beck as applied to claims 2 and 12 above, in view of Matsuoka (US 5765661)

Claims 3 and 13: Beck teaches the limitations of claims 2 and 12. Referring to claims 3 and 13, Beck does not teach the controller amplifies the component with a fixed factor. Matsuoka teaches a fixed amplification factor (Fig. 1: 4, the factor is fixed until new info is input). It would have been obvious to one having ordinary skill in the art

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at the time the invention was made to modify the apparatus taught by Beck to use a fixed amplification factor as taught by Matsuoka the advantage of this would be prevention of excessive system temperature.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (571) 272-2069. The examiner can normally be reached on Mon.- Fri. from 8 am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2800 ext. 4. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Renata McCloud

Examiner

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RDM

DAVID MARTIN
SUPERVISORY PATENT EXAMINER

TECHNOLUM CARREN 2800